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PIPERS

CHRYSANTHEMUMS – CARNATIONS



Rosabella

Plant and Seed Novelties of Distinction

PIPERS

LIVINGSTON, NEW JERSEY

TO OUR CLIENTS

It is with much pleasure that we present our Catalogue containing a selection of CHRYSANTHEMUMS and PLANT NOVELTIES, suitable for the Amateur and the Connoisseur.

We have abundant evidence that our business has grown through the recommendations of satisfied customers and we will endeavor to justify this valuable form of advertising.

We have available Carnations, Poinsettias, Roses and other greenhouse plants. ONLY THE BEST STOCKS GROWN ARE SOLD BY US.

We shall be pleased at all times to furnish any information regarding the culture of CHRYSANTHEMUMS and OTHER STOCK known to us.

May we at this time, thank our many clients for their patronage.

TERMS OF SALE

Delivery will be made on all orders at the proper time of planting unless a specified date is mentioned when ordering.

We endeavor to furnish plants true to name and have them satisfactory for the customer but give no guaranty for failure from causes over which we have no control and assume no responsibility after stock is delivered in good condition. If the customer does not wish to accept the shipment under these conditions, we ask that it be returned to us immediately.

PIPERS

Livingston, New Jersey

CHRYSANTHEMUMS

Odd Formed—Feathery and Threadlike—Varieties



Antoinette Bush (White)

ANTOINETTE BUSH (White)

Large long tubular petals; diameter 15 inches. Height tall and matures around October 20th. PRICE: \$1.00 each.

NIGHTINGALE

We believe this variety is most outstanding not only because of its unusual greenish color, but also because of its keeping quality as cut flowers. This variety is definitely a marked contribution to our Chrysanthemum list and we take great pleasure in listing this distinct variety. PRICE: \$1.50 each, \$15.00 per dozen.

SUE SALLY JONES

Large tubular yellow spider. Of the numerous spider varieties we have handled, we believe this variety has the near perfect qualifications for being an excellent commercial cut flower in this class. This large and graceful flower with splendid foliage will keep over two weeks after being cut. The stocky stem will easily support this excellent flower. Height 5 feet. Matures November 5th on. PRICE: \$1.00 each.

MAMORU

Dark orange with increasing bronze toward center. Excellent for commercial cut flowers, having strong stem and abundant foliage. The flower is of good keeping quality. Height medium, maturing October 30th. PRICE: \$1.00 each, \$10.00 per dozen.

OCTOBER MAPLE. The shape of this flower is like the other popular variety, "Mamoru." The flower is somewhat smaller than the latter but the color is of deeper bronze shade. Excellent color and strong stems make this variety a very good cut flower. Height 4 feet. Matures about November 1st on. PRICE: \$1.00 each, \$10.00 per dozen.

SAN GABRIEL. Extremely full yellow spider of medium tubular type. One of the largest spidery varieties we know. Excellent in pot for exhibition purposes. Height 4 feet. Matures around October 25th. PRICE: \$1.00 each, \$10.00 per dozen.

SAN MARINO. This splendid yellow spider variety has been very popular during our show because of the uniformity of petals. We recommend this variety for both pot culture and as cut flower growing. Height 4 feet tall. Matures around November 5th on. PRICE: \$1.00 each, \$10.00 per dozen.



Sue Sally Jones

ODD FORMED FEATHERY AND THREADLIKE VARIETIES—Continued



Silver Drops

SILVER DROPS

This variety is ideal for pot culture. The petals are fine tubular with hooked end tips. The flowers can be grown to about 14 inches in diameter, with luxuriant foliage. Height 3 to 3½ feet.

Name and Description	Height	Select Bud	Matures
White Sensation. White.....	Med.	Ter. Bud	Nov. 1
Kimie. Golden bronze.....	Med.	Ter. Bud	Nov. 1
Marie Tashima. White....	Tall	Ter. Bud	Nov. 1
Golden Pride. Golden yellow	Short	Ter. Bud	Nov. 1
Yamabuki. Yellow	Med.	Ter. Bud	Nov. 1
Sam Caswell. Light rose pink	Med.	Ter. Bud	Nov. 1
Yellow Taggart. Yellow quilled petals covered with hair	Med.	Ter. Bud	Nov. 1
Ohkwan. Yellow	Med.	Ter. Bud	Nov. 1
The Dean. White.....	Med.	Ter. Bud	Nov. 1
June Arnold. White with cream center	Short	Ter. Bud	Nov. 5
Bess Witt. Bronze (Sport from Peggy Ann Hoover)	Short	Ter. Bud	Nov. 5



Dainty White (White)

DAINTY WHITE (White)

Fine tubular type petals with hook-up tips. Diameter, 12 inches.

Name and Description	Height	Select Bud	Matures
Patricia Grace. (Rayon-nante) Shell pink	Med.	Ter. Bud	Nov. 5
Butterfly. Yellow	Tall	Ter. Bud	Nov. 5
Peggy Ann Hoover. Quilled lavender	Short	Ter. Bud	Nov. 5
Miss Gena Harwood. Rosy mauve	Med.	Ter. Bud	Nov. 5
Benten. Bronze and deep red tips, with green center	Med.	Ter. Bud	Nov. 10
Silver Drops. White.....	Short	Ter. Bud	Nov. 10
Yomei. Golden tube petals with red spoon-end tips	Med.	Ter. Bud	Nov. 10
Pride of Tokyo. Creamy pink. A novelty with odd tubular petals.....	Tall	Ter. Bud	Nov. 10
Japanese Maiden. Yellow	Med.	Ter. Bud	Nov. 25
Unique. Rich wine red.....	Tall	Ter. Bud	Dec. 1

Plants \$2.50 per dozen; \$15.00 per 100

SPOON CHRYSANTHEMUMS

RECENT INTRODUCTIONS

The Spoon Chrysanthemums develop into symmetrical rounded bushes about two feet high and two feet across, and in the latter part of October are covered completely by the dainty flowers which average two and one-half inches across. They are perfectly hardy and add much to the beauty of the Rock Garden or perennial border during the Autumn months. The flowers are produced on straight wiry stems, thereby making them very desirable for cutting. They are charming for table decorations, excellent for pot culture.

We offer the following varieties.

SILVER SPOON. Semi-double, pure white petals tubular nearly full length giving the flower a spidery appearance.

GOLDEN SPOON. Semi-double round perfect flowers. Bright apricot yellow. Compact and very free.

ORCHID SPOON. Almost double, 2½ to 3 inches. Very dainty regularly formed flowers freely pro-

duced in graceful masses. Color a very light pinkish lilac.

JASPER SPOON. 2 to 2½ inches in diameter, nearly double. Yellow buff tubes and reverse of petals. Face of the spoons is a light Jasper red. Very free, unique and attractive.

ROSE SPOON. 3 inches in diameter. Unique form. The tubes rise upward from the center forming a bowl shaped flower. The long flattened spoons at the ends of the tubes are reflexed. Unusually distinct. Color reddish violet.

\$.50 per plant; \$5.00 per dozen

STANDARD VARIETIES

WHITE SPOON

RED SPOON

PINK SPOON

YELLOW SPOON

\$2.50 per dozen; \$15.00 per 100

CHRYSANTHEMUM

Novelties of Distinction

LARGE FLOWERING

ANTARTIC. A pure white, round-flowered variety of good commercial size and excellent substance. Blooms November 20th and later when the flux of the mid-season varieties have passed. Grows 5 feet. Take terminal bud.

BRONZE KIDDER. A bright and pleasing bronze sport of the variety Mrs. H. E. Kidder. The inside of the petal is a bright bronze with slight shadings of Chinese-red, while the reverse is an even shade of buff, making a desirable incurved early bronze of good substance. Matures October 25th from buds selected August 25th

COMET. This variety will make a place for itself during mid-October, when good Mums are always in demand. The color is an intense golden yellow. Grows to 4 feet from June planting and needs only moderate support. Fine stems and foliage. Take terminal bud. Blooms October 15th. Also one of the best for shading.

FRIGIDA. There is a demand for better varieties blooming late. Frigida is a large bloom with good stem and foliage yielding practically 100% perfect blooms with fine texture. Grows 4 to 5 feet from June planting. Take terminal bud.

INDIANAPOLIS BRONZE. Growers who bought Indianapolis Pink will welcome this bronze sport. The color is a fine shade of bronze which does not fade as the bloom develops. Its blooming date follows

that of Detroit News which makes it possible to have that same grade of bronze into late November. It is also one of the very best for shading. Take terminal bud. Like its parent it grows to 5 feet from June planting.

METEORE. Large round bloom on good stem with good foliage. We recommend this variety as a late yellow to bloom during mid-December. Holds well on the plant. Take terminal bud.

ROSABELLA. A splendid variety to precede Orchid Queen, its blooming date being the last week in October and holding into early November. The color is a good shade of pink which holds unusually well. The growth is very rigid and the foliage is good. Grows to 5 feet from June planting. Take terminal bud.

ROSEUM. Large incurved bloom with good stem and foliage. Grows 5 feet from June planting. The color is a bright deep pink which does not fade with age. Won the C. S. A. silver medal in 1939. Take terminal bud.

SHANGRI-LA. This is a lovely clear light pink, reflexing petal, which has in its color every desirable attribute. We believe this will become very popular as it is a very late variety maturing at Thanksgiving and later. Select bud, September 20th, height 4 feet.

\$.50 per plant; \$5.00 per dozen

ANEMONE CHRYSANTHEMUMS

RECENT INTRODUCTIONS

IRENE HAYES. White, Anemone type with flat cushion; disbudded, produces 4—5 inch flowers; matures November 15th.

KATHLEEN RICHTER. Large; golden bronze Anemone with a low round cushion of the same color; diameter of flower is 4 inches when disbudded to one flower; matures about November 10th. The color of this variety is striking and something new.

LINDA LOU. An Anemone of a fine shade of medium pink which blends well with other colors. Makes fine sprays on medium length stems and produces heavily. We recommend this variety for cutting November 8th and later.

LOUISE DUPUY. Very large; pink anemone with long stiff petals and a very small low cushion; diameter of flower about 6 inches when disbudded to one flower; matures about November 1st; has a vigorous growth and is a good producer.

LULABEL. The anemone type is becoming more and more popular and this is a variety that should have a place among them. The color is a suffused pink with a yellow cushion. The bloom is 3 to 4 inches in diameter and is produced in fine sprays. The growth is of medium height and very sturdy producing a heavy yield.

SUNBRITE. Those who remember Sunshine will welcome this variety. It grows about the same and blooms at the same date, late November. Holds well on the plant and does not spoil in the cushion center like Sunshine did.

WHITE FRIEDA. Sport of well known popular variety Frieda White guard petals with golden yellow cushion.

Any of the above \$.50 each;
\$5.00 per dozen

SINGLE CHRYSANTHEMUMS

RECENT INTRODUCTIONS

MILDRED MORRISON. A bright golden yellow single. Blooms November 3rd. Flowers are 6 inches in diameter, with 3 rows of sturdy petals. This variety has a good wiry habit of growth, attains a medium height and fills the need for a good quality.

MRS. R. E. TOMLINSON. Greatly admired by many who are interested in something different in table decoration. Its lovely golden yellow quilled petals lend themselves to this graceful type of work.

VIKING. A heavy-petaled bronze single. Color is an intense, deep bronze on immature petals shading to a golden bronze as they mature. Very striking

under artificial light. Blooms December 1st. Flowers attain a diameter of 2½ inches. The 5-6 rows of petals are so arranged as to give depth and design to the flower. This variety makes a strong, vigorous growth and is a fair producer.

ESTER. A bronze single which lends itself for shading. Can be grown either in sprays or disbudded. A good producer.

YELLOW DAISY. A large single golden yellow with three rows of petals; diameter of flower is 5 inches and should be disbudded to one flower; matures about October 25th; has wiry stems and small foliage; is a very good producer.

\$.50 per plant; \$5.00 per dozen

POMPON CHRYSANTHEMUMS

RECENT INTRODUCTIONS

BRONZE MASTERPIECE. This is a bronze sport from the popular Masterpiece and should become as popular as the parent. Good for disbudding or grown in sprays. Blooms the middle of November.

FLAMBEAU. Has the same golden bronze color as Dorothy Turner but is a much better producer. The sprays are more slender which makes them more serviceable for the retailer. We recommend this variety most highly. Heavy producer. Blooms November 5th.

ISOBEL. May be described as a pink Nuggets as it grows about the same height and blooms about the same date, November 1st. Good stiff spray. The color is a good solid shade of bright pink. Good for shading.

PEARL. A large Pompon, clear opaque white, of unique, globular form. Blooms about November 20th, just after Chicago Pearl, which variety it resembles. A fast growing, strong, wiry stem; relatively small foliage; a good producer.

POMPON CHRYSANTHEMUMS—Continued

ROSE PEARL. In late October to follow the earliest varieties of Pompons you need some good heavy producers. Rose Pearl is a strong, bushy grower that will give you quantities of bright lavender sprays. Blooms run about 2 inches in diameter. Grows to good height and blooms October 25th.

WHITE PEARL. A pure white sport from Pink Pearl which we recommend very highly for blooming in late October. Same as the parent in every respect except color.

PURE GOLD. One of the most admired of the 1939 seedlings. Perfectly formed, fully double golden yellow flowers are very freely produced the first

week of October on compact vigorous plants of medium height. The color is deep and dazzling. The flowers are over 3 inches in diameter without disbudding.

AVALANCHE. Early October flowering pure high crowned fully double white variety with strong wiry stems. We believe this is destined to become a most popular addition to our hardy white varieties. The flowers are 4 to 5 inches in diameter without disbudding.

\$.50 each; \$5.00 per dozen

EXHIBITION VARIETIES

YELLOW

Name and Description	Height	Select Bud	Matures
Harvest Moon. Semi-Incurved	Short	Ter. Bud	Oct. 25
Golden Majestic. Reflexed	Short	Aug. 20	Nov. 1
J. R. Booth. Reflexed	Med.	Aug. 15	Nov. 1
Yellow Turner. Incurved	Med	Aug. 25	Nov. 5
Yellow Pockett. Incurved	Med.	Aug. 15	Nov. 8

WHITE

Alice Benson. Incurved	Med.	Aug. 30	Nov. 1
William Turner. Incurved	Med.	Aug. 25	Nov. 5
Louisa Pockett. Incurved	Med.	Aug. 15	Nov. 8

BRONZE

Majestic. Amber Bronze. Reflexed	Short	Aug. 20	Nov. 1
Mrs. H. S. Firestone. Chamois Buff. Incurved	Short	Aug. 25	Nov. 1
Marian Uffinger. Bronzy Crimson with a Gold reverse. Semi-Incurved	Med.	Aug. 20	Nov. 1

Name and Description	Height	Select Bud	Matures
Nagirroc. Golden Bronze. Reflexed	Med.	Aug. 15	Nov. 1
Bronze Turner. Light Bronze. Incurved	Med.	Aug. 25	Nov. 5
W. H. Waite. Reddish Bronze. Reflexed	Short	Aug. 15	Nov. 5

PINK

Pink Turner. (Mrs. Leslie Davis.) Incurved	Med.	Aug. 25	Nov. 5
Thos. W. Pockett. Light Lavender. Semi-Incurved	Med.	Aug. 15	Nov. 8
Vermont. Light Rose Pink. Reflexed	Tall	Aug. 25	Nov. 8

RED

Grace Sturgis. Wine Red with Pinkish Silver reverse. Reflexed	Tall	Aug. 25	Nov. 1
Red Majestic. Bronzy Red. Reflexed	Short	Aug. 25	Nov. 1
Mrs. G. G. Mason. Blood Red with Golden reverse. Incurved	Med.	Aug. 20	Nov. 1
Improved W. H. Waite. Deep, Reddish Bronze. Reflexed	Short	Aug. 15	Nov. 5

\$.30 each; \$2.50 per dozen

Pompon and Decorative Commercial

STANDARD VARIETIES

The term pompon is applied to those varieties which are of the true rounded type, and those very nearly approaching this type.

Decorative varieties are those which are a distinct departure from the rounded type. Their flowers are

less compact, partly reflexed and display more of the color of the inner side of the petals

Size of flower is indicated by S—small; Int.—intermediate; L—large.

YELLOW

Name and Description	Height	Type	Matures
Ida, Imp. Light Lemon Yellow	Med.	Int. Pom.	Oct. 15
Yellow Irene. Light Lemon Yellow. Sport from Irene	Short	S. Pom.	Oct. 18
Rodell, Imp. Light Lemon Yellow	Short	Int. Pom.	Oct. 20
*Masaka. Light Lemon Yellow	Med.	L. Pom.	Oct. 20
Gold Finch. Golden Yellow	Med.	Int. Pom.	Oct. 20
*Golden Fairy. Light Golden Yellow	Med.	L. Pom.	Oct. 23
Yellow Dot. Yellow with Bronze center. Sport from Pink Dot	Med.	Int. Pom.	Oct. 25
*Yellow Sea Gull. Pale Lemon Yellow. Sport from Sea Gull	Tall	Int. Pom.	Nov. 1
*Yellow Doty. Buff Yellow	Med.	L. Pom.	Nov. 1
Derigold. Deep Golden Yellow	Med.	Int. Pom.	Nov. 10
Yellow New York. Deep Lemon Yellow. Sport from New York	Med.	S. Pom.	Nov. 13
Yellow Fellow. Deep Lemon Yellow	Med.	Int. Dec.	Nov. 15
Lois. Deep Golden Yellow	Med.	S. Pom.	Nov. 18
Yellow Princeton. Deep Lemon Yellow	Med.	Int. Dec.	Nov. 20
*Ball of Gold. Deep Lemon Yellow	Med.	Int. Pom.	Nov. 20
Big Baby. Light Lemon Yellow	Med.	S. Pom.	Nov. 20
Hasegawa Gold. Light Golden Yellow	Med.	Int. Pom.	Nov. 23
Golden Sceptre. Lemon Yellow	Tall	Int. Pom.	Nov. 25
Long Island Sunshine. Light Lemon Yellow ..	Tall	Int. Pom.	Nov. 28

Name and Description	Height	Type	Matures
Yellow Cordova. Lemon Yellow. Sport from Cordova	Med.	Int. Dec.	Nov. 30
*Gold Coin. (Unalga.) Deep Lemon Yellow ..	Med.	Int. Pom.	Dec. 1
*Yuvawn. Buff Yellow ..	Med.	Int. Pom.	Dec. 3
Golden Modena. Deep Lemon Yellow. Sport from Modena	Med.	Int. Pom.	Dec. 5
Buttercup. Deep Lemon Yellow	Tall	Int. Pom.	Dec. 10
December Gold. Deep Golden Yellow	Med.	Int. Dec.	Dec. 15
Christmas Cheer. Buff Yellow	Med.	Int. Pom.	Dec. 15

WHITE

Earliwhite	Med.	Int. Pom.	Oct. 10
Uvalda. Cream White ..	Med.	Int. Pom.	Oct. 10
White Jewell. White tinged with Light Lavender	Short	S. Pom.	Oct. 15
Irene	Short	S. Pom.	Oct. 18
Greta	Med.	Int. Pom.	Oct. 20
Arcadia	Med.	Int. Pom.	Oct. 28
White Pearl. White suffused with Pink. Sport from Rose Pearl	Med.	Int. Pom.	Oct. 28
*Sea Gull. Cream White	Tall	Int. Pom.	Nov. 1
*Marianna. Cream White	Med.	L. Pom.	Nov. 1
Mary Pickford	Short	S. Pom.	Nov. 1
*White Doty. Ivory White	Med.	L. Pom.	Nov. 1
*Elora. Ivory White suffused with Pink	Tall	L. Pom.	Nov. 1
Crystal Jewell	Tall	S. Pom.	Nov. 8
White Yuletide	Short	Int. Pom.	Nov. 28
Cordova. Cream White	Med.	Int. Dec.	Nov. 30
White Tonquin. Sport from Tonquin	Med.	Int. Pom.	Dec. 10
December Glory. Ivory White	Med.	Int. Dec.	Dec. 15
Snow. Ivory White	Med.	Int. Pom.	Dec. 30

\$.25 each; \$2.00 per dozen

*—Good disbudded.

*—Good disbudded.

POMPON AND DECORATIVE COMMERCIAL—Continued

STANDARD VARIETIES—Continued

BRONZE

Name and Description	Height	Type	Matures
*Tango. Reddish Bronze	Med.	L. Pom.	Oct. 15
Clara Jameson. Dark Reddish Bronze	Med.	S. Pom.	Oct. 15
Nubian. Dark Reddish Bronze	Tall	Int. Pom.	Oct. 15
Roman Bronze. Bronze suffused with Pink. Sport from Capt. Cook	Tall	Int. Pom.	Oct. 20
Carlina Lee. Reddish Bronze	Med.	Int. Dec.	Oct. 20
Adelaide. Dark Reddish Bronze	Med.	S. Pom.	Oct. 23
Ethel. Reddish Bronze	Med.	S. Pom.	Oct. 25
Fire Bird. Dark Reddish Bronze	Med.	Int. Dec.	Oct. 25
Bronze Doty. Light Reddish Bronze	Med.	Int. Pom.	Nov. 1
Elizabeth Peterson. Light Orange Bronze	Med.	Int. Dec.	Nov. 3
*Edith Newberry. Orange Rust	Tall	L. Dec.	Nov. 5
Peggy Poesch. Pale Buff Orange	Med.	L. Dec.	Nov. 10
*Muskoka. Dark Reddish Bronze	Tall	L. Pom.	Nov. 10
New York. Reddish Bronze	Med.	S. Pom.	Nov. 13
Fez. Deep Reddish Bronze	Med.	S. Pom.	Nov. 15
Princeton. Golden Yellow suffused with Orange	Med.	Int. Dec.	Nov. 15
Catherine. Light Reddish Bronze	Med.	Int. Dec.	Nov. 20
Legal Tender. Bronze and Gold	Med.	Int. Dec.	Nov. 20
Dusky Maid. Light Reddish Bronze	Tall	Int. Pom.	Nov. 25
Red Beau. Reddish Bronze	Short	Int. Dec.	Nov. 25
*Capt. Blood. Dark Reddish Bronze	Med.	L. Dec.	Nov. 25
Gold Tips. Reddish Bronze and Gold	Med.	Int. Dec.	Nov. 25
Glow. Orange, Reddish Orange at center	Med.	Int. Pom.	Nov. 30
Loris. Reddish Bronze	Med.	Int. Dec.	Dec. 1
Harmony. Red Orange with Bronze shading	Med.	Int. Pom.	Dec. 5
Katherine Johnston. Light Reddish Bronze	Med.	Int. Pom.	Dec. 10

PINK

Name and Description	Height	Type	Matures
Calvalcade. Mandarin Red—Golden Bronze reverse	Med.	Int. Pom.	Dec. 10
Dark Pink Jewell. Deep Lavender. Sport from Jewell	Short	S. Pom.	Oct. 15
Bonnie Maid. Light Lavender	Med.	Int. Pom.	Oct. 20
Capt. Cook. Deep Rose Pink	Tall	Int. Pom.	Oct. 20
Persian Rose. Deep Rose Pink	Short	Int. Pom.	Oct. 23
*Angello. Pale Rose Pink	Short	L. Pom.	Oct. 25
Pink Dot. White with Pink center	Med.	Int. Pom.	Oct. 25
Highlights. Pale Lavender with Deep Lavender center	Med.	Int. Pom.	Oct. 25
*Irene Rich. Light Rose Pink	Med.	L. Pom.	Nov. 1
*Lillian Doty. Pale Rose Pink	Med.	L. Pom.	Nov. 1
*Rose Charm. Lavender	Med.	L. Pom.	Nov. 1
Mrs. Morgan G. Bulkeley. Light Rose Pink suffused with Orchid Lavender	Tall	Int. Pom.	Nov. 8
*Thyra. Lavender	Med.	L. Pom.	Nov. 10
Dorothy Nehrling. Rose Pink	Med.	S. Pom.	Nov. 15
Roselea. Pale Rose Pink	Med.	Int. Pom.	Dec. 1
Tonquin. Deep Lavender	Med.	Int. Pom.	Dec. 10
Prosperity. Deep Lavender	Med.	Int. Dec.	Dec. 10
Mother of Pearl. Light Rose Pink	Tall	Int. Pom.	Dec. 30

RED

*Fire Ball. Dark Red	Tall	L. Pom.	Nov. 1
*Red Doty	Tall	L. Pom.	Nov. 1
Robin Hood. Dark Red	Med.	S. Pom.	Nov. 5
Patsy Dowd. Deep Red	Short	S. Pom.	Nov. 5
Grenadier. Deep Red	Med.	Int. Pom.	Nov. 10
Mrs. Mary Hooker. Deep Red	Tall	L. Dec.	Nov. 15
Red Princeton. Brazil Red	Med.	Int. Dec.	Nov. 15
Helen Hubbard. Deep Red	Med.	L. Dec.	Nov. 25
Royal Crimson. Dark Crimson	Med.	L. Dec.	Dec. 1

\$.25 each; \$2.00 per dozen

*—Good disbudded.

*—Good disbudded.

SINGLE-DAISY TYPE

STANDARD VARIETIES

YELLOW

Name and Description	Height	Type	Matures
Gretchen Piper. Lemon Yellow	Med.	Inter.	Nov. 1
Golden Mensa. Pale Lemon Yellow	Med.	Inter.	Nov. 10
Sunny Boy. Pale Buff Yellow	Med.	Inter.	Nov. 15
* Jane. Buff Yellow. Sport from Valencia	Med.	Large	Nov. 30
Fawn. Deep Buff Yellow	Med.	Inter.	Dec. 5

WHITE

Silver Emblem. Cream White	Med.	Inter.	Nov. 1
White Mensa. Ivory White	Med.	Inter.	Nov. 10
Gladys Duckham	Med.	Inter.	Nov. 20

BRONZE

Aloma. Terra Cotta Bronze with Yellow center	Med.	Inter.	Oct. 20
Joan Piper. Pale Buff Orange	Med.	Inter.	Oct. 28
Absolute. Scarlet Bronze with Yellow center....	Med.	Inter.	Nov. 1
Ida Skiff. Light Bronze	Short	Inter.	Nov. 1
* Mason's Bronze. Burnt Orange	Short	Large	Nov. 10
Lighthouse. Bronze shading to Watermelon Red	Med.	Inter.	Nov. 10
* Melba. Light Reddish Bronze	Short	Large	Nov. 15

*—Good disbudded.

\$.25 each; \$2.00 per dozen

Name and Description	Height	Type	Matures
Sunburst. Sunburst Orange	Med.	Large	Nov. 25
Viking. Deep Reddish Bronze shading to Orange	Med.	Inter.	Dec. 1
Dawn. Pale Reddish Bronze	Tall	Inter.	Dec. 5

PINK

Woburn. Light Lavender	Tall	Inter.	Nov. 15
Hasegawa Pink. Lavender	Med.	Inter.	Nov. 25
Mrs. E. D. Godfrey. Light Rose Pink	Tall	Inter.	Nov. 25
* Valencia. Orchid Pink	Tall	Large	Nov. 30
* Dark Pink Valencia. Deep Orchid Pink.....	Tall	Large	Nov. 30

RED

D. Baker. Orange Red	Short	Large	Oct. 20
Mrs. Darling. Light Red	Med.	Inter.	Nov. 1
* Red Rover. Crimson Orange	Short	Large	Nov. 5
Tagoya. Brilliant Goya Red	Short	Inter.	Nov. 10
* Clara Holford. Deep Red	Med.	Large	Nov. 10
Radiant. Light Red	Med.	Inter.	Nov. 10
* Red Melba. Light Red	Short	Large	Nov. 15
Hasegawa Poinsettia. Deep Red	Short	Inter.	Nov. 25
* Carnelia. Bittersweet Red	Short	Large	Nov. 30
Blaze. Deep Scarlet Red	Tall	Inter.	Dec. 10

*—Good disbudded.

ANEMONE FLOWERED

STANDARD VARIETIES

YELLOW

Name and Description	Height	Type	Matures
Yellow Blanche. Pale Lemon Yellow. Sport from Blanche	Med.	Inter.	Nov. 1
* Helios. Deep Golden Yellow	Med.	Large	Nov. 10
* Susanne Miller. Buff Yellow. Sport from Norma	Tall	Large	Nov. 18
* Maritza. Golden Yellow	Short	Large	Nov. 25

*—Good disbudded.

\$.25 each; \$2.00 per dozen

Name and Description	Height	Type	Matures
* Citrus Queen. Lemon Orange	Med.	Large	Nov. 25
* Gleam. Deep Lemon Yellow	Med.	Large	Dec. 5
* Yellow Supreme. Buff Yellow suffused with Pink. Sport from Pink Supreme	Med.	Large	Dec. 10
Yellow Garza Supreme. Pale Lemon Yellow....	Short	Inter.	Dec. 15

*—Good disbudded.

ANEMONE FLOWERED—Continued

STANDARD VARIETIES—Continued

WHITE

Name and Description	Height	Type	Matures
Graceland. White with Yellow center	Med.	Inter.	Oct. 28
Blanche	Med.	Inter.	Nov. 1
* White Anemone	Tall	Inter.	Nov. 5
* Smith's Innocence	Tall	Large	Nov. 5
* Little America	Med.	Inter.	Nov. 10
* White Norma. White suffused with Pink....	Tall	Large	Nov. 18
* Swan	Med.	Large	Dec. 1
* White Supreme. White suffused with Pink ...	Med.	Large	Dec. 10
Garza Supreme	Short	Inter.	Dec. 15

BRONZE

* Bronze Tuxedo. Light Buff suffused with Pink. Sport from Tuxedo	Med.	Large	Nov. 10
* Bronze Norma. Deep Buff Bronze. Sport from Norma	Tall	Large	Nov. 18
* Estrelita. Deep Buff Bronze	Med.	Large	Nov. 20
Rolinda. Pale Reddish Bronze	Med.	Inter.	Nov. 23
Red Rolinda. Deep Reddish Bronze. Sport from Rolinda	Med.	Inter.	Nov. 23
Yolanda. Pale Orange Bronze	Med.	Small	Nov. 25
* Coral Blaze. Deep Orange Bronze	Short	Large	Dec. 1
Chrome Emerald. Golden Orange with Gold cushion	Short	Inter.	Dec. 1
* Bronze Supreme. Light Bronze suffused with Pink	Med.	Large	Dec. 10

PINK

Name and Description	Height	Type	Matures
* Marietta. Pale Lavender	Med.	Large	Oct. 30
* Topknot. Amaranth with Cream White cushion	Med.	Inter.	Nov. 5
* China Rose. Amaranth Purple	Med.	Large	Nov. 10
* Tuxedo. Rose Pink.....	Med.	Large	Nov. 10
Orchid Beauty. Orchid with Golden cushion	Med.	Inter.	Nov. 15
* Freida. Light Lavender with Yellow cushion	Med.	Large	Nov. 15
* Norma. Orchid Pink petals with Salmon cushion	Tall	Inter.	Nov. 18
* Dark Pink Norma. Deep Lavender. Sport from Norma	Tall	Inter.	Nov. 18
* Long Island Beauty. Pale Pink with Yellow cushion	Med.	Large	Nov. 20
* Beautiful Lady. Deep Lavender rays with Cream White cushion	Short	Large	Nov. 25
* Dark Pink Supreme. Lavender. Sport from Pink Supreme	Med.	Large	Dec. 10

RED

* Stoplight. Terra Cotta petals with Yellow cushion	Med	Inter..	Nov. 5
* The Titan. Scarlet Crimson with Bronzy cushion	Med.	Large	Nov. 10
* Captivation. Mahogany Red	Med.	Large	Nov. 10

\$.25 each; \$2.00 per dozen

*—Good disbudded.

*—Good disbudded.

PIPERS CASCADE CHRYSANTHEMUMS

CULTURAL NOTES

The Cascade Chrysanthemums are becoming the favored queen of Autumn flowers. A few words on the culture of these beautiful flowers, which may be obtained from seeds.

It is very easily grown, and makes a wonderful subject for cutting and pot work, either as a bushplant or, as the name suggests, for decorating, falling as it does in cascades of beautiful flowers.

In preparing the soil for seeds, which should be sown in February or March, equal parts of garden soil, leafmold, and sharp sand makes an admirable mixture. It is sufficiently porous, so that the seedlings will grow freely.

Fill pans or pots within three-quarters of an inch of the top, using broken crocks or ashes to insure correct drainage, sifting the soil to make an even surface for sowing the seed. Water the receptacles, and allow to stand for one day, then sow the seeds and cover lightly.

When seedlings show the fourth leaf, prick out into small pots, using any good fresh soil, the following mixture preferable: one part loam, one-quarter part rotted manure, one-sixteenth part sand. As plants continue to grow, increase the size of the pots, and also add to the above mixture one-fiftieth part of bone meal.

To obtain upright specimen pot plants, the young plants (when about four inches tall) should be pinched back until the second week in July, to furnish a well-shaped plant.

For the cascade specimens, the young plants must be kept tied down to a stick placed in the pot at an angle

of 45 degrees, and the point of the stick to point to the North until the middle of August. All laterals are kept pinched back, and when the buds are perfectly formed the stick is removed and the plant allowed to hang over the side of the pot. After this time the growths are faced to the South. This will insure perfect raceme of flowers.

CASCADE VARIETIES

Anna Pure. White Single November 1
Brown Button. Bronze Pompon..... November 10
Jane Harte. Yellow Single..... November 1

Agappina. Mahogany with tinge of
yellow on the tips of the cushion
florets November 10

\$2.50 per dozen; \$15.00 per 100

Large Flowering Commercial

STANDARD VARIETIES

YELLOW

Name and Description	Height	Select Bud	Matures
Yellow Frost. Pale Lemon Yellow. Semi-Incurved	Short	Early	Early
Golden Glow. Pale Golden Yellow. Incurved	Med.	Aug. 1	Oct. 1
Gold Lode. Light Golden Yellow. Reflexed..	Med.	Aug. 25	Oct. 1
Mrs. H. E. Kidder. Deep Lemon Yellow. Incurved	Med.	Aug. 25	Oct. 20
Yellow Ambassador. Pale Lemon Yellow. Incurved. Sport from Ambassador	Med.	Ter. Bud	Oct. 25
Golden Glory. Golden Yellow. Semi-Incurved	Short	Aug. 25	Nov. 1
Col. F. M. Alger. Light Lemon Yellow. Incurved	Med.	Sept. 5	Nov. 1
Cardonia. Deep Golden Yellow. Incurved	Med.	Sept. 5	Nov. 10
Honey Dew. Lemon Yellow. Incurved	Short	Ter. Bud	Nov. 15
Golden Celebration. Lemon Yellow. Reflexed	Med.	Sept. 15	Nov. 20
Friendly Rival. Deep Chrome Yellow. Incurved	Med.	Sept. 10	Nov. 20

Name and Description	Height	Select Bud	Matures
Friendly Call. Buff Yellow. Incurved	Tall	Ter. Bud	Nov. 20
Marie de Petris. Deep Golden Yellow. Incurved	Short	Sept. 15	Nov. 23
Golden Chadwick. Light Golden Yellow. Semi-Incurved	Med.	Ter. Bud	Nov. 25
Improved Yellow Chattanooga. Light Lemon Yellow. Incurved	Med.	Sept. 20	Nov. 25
R. M. Calkins. Golden Yellow. Semi-Incurved	Med.	Sept. 20	Nov. 30
Yellow December Glory. Pale Lemon Yellow. Incurved	Tall	Sept. 30	Nov. 30
Golden Mrs. Ross. Golden Yellow. Incurved	Tall	Early Oct.	Dec. 3
Golden Mistletoe. Pale Golden Yellow. Incurved	Med.	Sept. 30	Dec. 10
Improved Tobin's Late Yellow. Light Lemon Yellow. Semi-Incurved. Sport from Tobin's Late Yellow	Short	Sept. 30	Dec. 15

\$.25 each; \$2.00 per dozen

LARGE FLOWERING COMMERCIAL—Continued

STANDARD VARIETIES—Continued

WHITE

Name and Description	Height	Select Bud	Matures
Smith's Early White. Incurved	Tall	Aug. 10	Oct. 5
Silver Sheen. Incurved	Med.	Aug. 30	Oct. 18
Ambassador. Cream White. Incurved	Med.	Ter. Bud	Oct. 23
Snow White. Incurved	Med.	Ter. Bud	Nov. 1
Betsy Ross. Ivory White. Incurved	Tall	Aug. 25	Nov. 1
Monument. Ivory White. Incurved	Med.	Sept. 10	Nov. 15
Edgar Stillman Kelly. Reflexed	Med.	Sept. 15	Nov. 15
Marketeer. Incurved	Med.	Ter. Bud	Nov. 18
Tom Browne. Cream White. Incurved	Med.	Ter. Bud	Nov. 20
White Frick. White suffused with Pink. Incurved. Sport from Helen Frick	Short	Sept. 10	Nov. 25
Chattanooga. Incurved	Med.	Sept. 20	Nov. 25
Miss Flora Bowers. Incurved	Med.	Sept. 5	Nov. 30
December Glory. Ivory White. Incurved	Tall	Sept. 30	Dec. 1
Improved December Beauty. Incurved. Sport from December Beauty	Med.	Oct. 1	Dec. 8
White Mistletoe. Incurved	Med.	Sept. 30	Dec. 10
Smith's Late White. Ivory White. Semi-Incurved	Short	Sept. 30	Dec. 15

BRONZE

Bronze Lode. Pale Buff Bronze. Reflexed. Sport from Gold Lode	Med.	Aug. 25	Oct. 1
Hilda Bergen. Dark Reddish Bronze. Incurved	Med.	Aug. 25	Oct. 25
Keystone. Buff Bronze. Incurved	Med.	Aug. 30	Oct. 25
Apricot Queen. Orange Bronze. Incurved	Short	Sept. 5	Nov. 1
Anna Kaskas. Pale Buff Bronze. Incurved	Tall	Sept. 5	Nov. 5
Mrs. A. J. Stahelin. Reddish Bronze. Incurved	Med.	Ter. Bud	Nov. 15
Gladys Pearson. Light Buff Bronze. Incurved	Med.	Sept. 30	Nov. 25
Oak Leaf. Light Reddish Bronze. Incurved	Med.	Sept. 30	Nov. 25

Name and Description	Height	Select Bud	Matures
Bronze Frick. Light Bronze suffused with Pink. Incurved. Sport from Helen Frick	Short	Sept. 10	Nov. 25
Bronze Chadwick. Bronze suffused with Pink. Semi-Incurved	Med.	Ter. Bud	Nov. 25
Bronze Mistletoe. Buff Bronze suffused with Pink. Incurved	Med.	Sept. 30	Dec. 10

PINK

Rose Marie. Lavender. Semi-Incurved	Tall	Aug. 5	Oct. 1
Lustre. Light Lavender. Incurved	Short	Aug. 25	Oct. 10
Pink Chief. Lavender. Incurved	Tall	Ter. Bud	Oct. 15
Major Ed. Bowes. Deep Lavender. Incurved	Med.	Aug. 30	Oct. 20
Pink Delight. Deep Rose Pink. Semi-Incurved	Tall	Sept. 10	Nov. 1
Old Rose. Amaranth. Incurved	Med.	Sept. 10	Nov. 1
J. W. Prince. (Improved Chieftain.) Rose Pink. Incurved	Short	Aug. 30	Nov. 5
Indianapolis Pink. Deep Lavender, with Pale Reverse. Incurved	Med.	Ter. Bud	Nov. 8
Floyd Gibbons. Salmon Pink with Buff Reverse. Semi-Incurved	Short	Sept. 15	Nov. 10
Pink Treasure. Lavender. Incurved	Short	Sept. 20	Nov. 10
Helen Frick. Rose Pink. Incurved	Med.	Sept. 10	Nov. 25
Pink Mistletoe. Lavender. Incurved	Med.	Sept. 30	Dec. 10

RED

Governor Green. Crimson with Old Gold Reverse. Semi-Incurved	Short	Aug. 15	Oct. 15
Mrs. David F. Roy. Crimson with Deep Buff Reverse. Incurved	Short	Sept. 15	Nov. 8
Garnet King. Dark Red. Reflexed	Med.	Sept. 20	Nov. 18
Harvard. Deep Red. Reflexed	Med.	Sept. 30	Nov. 30
Mohawk Chief. Deep Red. Reflexed	Med.	Oct. 1	Nov. 30

\$.25 each; \$2.00 per dozen

CHRYSANTHEMUMS

CULTURAL NOTES

May I present a few helpful notes regarding the culture of Chrysanthemums. On receiving plants from the nursery special care should be taken for a few days until they become established in the pots or new location.

SUMMER PRUNING OR STOPPING

When the plant shows signs of becoming established in the new position, the growing tip should be removed, to induce branching. Generally, it is advisable to pinch out the top of the shoot after three or four pairs of leaves have formed, but in the writer's garden experience even better results may be had by removing the tip after the second pair of leaves is mature. Three to five shoots will appear, which, in turn, should be stopped, to induce branching.

The importance of this can not be overestimated. Only too often the garden chrysanthemums grown in small places are great sprawling plants, almost like shrubby climbers, which yield crooked stalks for cutting. A little experience will enable one to decide the best number of stoppings for each variety, as some branch freely with one or two stoppings, while others must be checked repeatedly. No pinching out should be done after the middle of July, as this might bring the bloom too far into the autumn. Under this treatment plants will usually form broad, spreading bushes with erect, upright branches strong enough to bear the large flowers coming later.

FERTILIZING

From about the time of the last stopping, extra feeding can be given to advantage. As midsummer is also the time of greatest heat, extra water should be given if the soil is at all likely to dry out, and the surface should be thoroughly hoed, to insure a thick mulch. The soil should be watered before the fertilizers are applied. This extra feeding is often omitted for the garden varieties, but usually is more than worth the trouble. In any case it should be stopped by the time the color commences to show in the flower buds.

STAKING

The period of midsummer growth is especially important after the last stopping of growth has been made, for it is during this time that stakes should be driven beside those plants which grow so tall that

their stems will not support them. A stake early in the summer will insure the erect growth of the flowering shoots, an item of no small importance when the blooms are cut.

DISBUDDING

The first bud produced by a chrysanthemum is called a "crown" bud. On the large-flowered varieties this is the bud which usually will produce the largest bloom. Almost as soon as it appears, branches grow from the axils of the topmost leaves. If the crown bud is to be saved, those must be removed at once. When they are removed, all the strength of the plant rises to the crown bud, giving it a great development. If it is not to be saved, and indeed in most of the garden varieties known to the writer it is often abortive, the shoots near it should remain. If a single flower is wanted, save but one; if many flowers are wanted, all should be kept. Each will develop and produce terminal buds in clusters of from three to six or seven. If the strongest one of these is saved, it will produce a large flower, but for garden decoration more should be saved, producing "sprays" of bloom.

The desirability of disbudding varieties of hardy chrysanthemums is largely a matter of personal taste. The writer prefers not to disbud any of the outdoor plants except some of the early-flowering commercial varieties of Chinese and Japanese sorts and members of the groups known in the trade as decorative and early-flowering chrysanthemums. The former are greatly helped by disbudding, and the latter produce moderate-sized flowers of great beauty, both in the garden and for cutting.

SHELTERS

By the time of flowering the season will have advanced until there is a danger of frost. Chrysanthemum plants are quite frost hardy, but the half-open flowers, especially of white and pink varieties, are badly damaged. A certain amount of danger can be overcome by choosing portions of the garden where frosts do the least damage. The matter of artificial protection each person must decide for himself. Unquestionably it requires considerable labor to prepare temporary shelter of any kind. Most commonly a frame is built over the bed on which hotbed sash can be laid for roofing and the sides covered with

CHRYSANTHEMUMS—Continued

burlap or similar material. It is to be hoped that in time a strain of early-flower plants will be found. Those who are willing to make shelters for varieties which bloom too late to escape frosts have devised various temporary shelters of cloth or sash which give fairly adequate protection.

VARIETIES

The choice of varieties for the garden is a difficult matter, because each person has a personal preference to be considered. In addition the chrysanthemum, having become a flower of the specialist, is exhibited in dozens of new forms each year, some of which survive the test of distribution, while others are dropped after one season, thus making the chosen list of any date more or less useless after a very few seasons.

TYPES OF BLOOMS

Certain types of blooms should be known to all growers and gardeners, the final choice of varieties from these being safely left to the individual.

The early flowering and decorative varieties are not so much grown by amateur gardeners as they well might be. They flower as freely as the pompon varieties and produce blooms of considerable size and a delightful range of shapes and colors.

With the early-flowering sorts should be grown some of the anemone flowered varieties. They are delightful chrysanthemums, much like single or semidouble ones, except that the florets of the yellow disks develop a more petal-like substance. All are likely to be rather late flowering and should be given a sheltered location.

The single varieties however are beautiful flowers for the home gardener and in the opinion of the writer are the very best for cut flowers for the home as well as for garden decorations. Their number is legion, and the variations of color, form, and degree of singleness are so many that an extensive collection might well include only single sorts.

INSECT ENEMIES

The aphid in its several forms, black, green, and red, finds the chrysanthemums a favorite feeding place, and the careful gardener must be constantly prepared to apply contact insecticides to prevent the aphids from multiplying to such numbers that the plants are checked in their development. Two thor-

ough applications will check each attack, one killing the larger part of the infestation and the second catching any which escaped the first application.

The aphids may often be knocked off by a strong stream of water from a hose where available, and this treatment, frequently given, is often all that is necessary to keep them in check.

Additional information regarding Chrysanthemums will be given upon request.

SHADING TO ADVANCE THE FLOWERING SEASON

Methods of applying shade vary with most growers. It depends on the material on hand and the location of the beds. While black sateen cloth is most widely used, it is by no means the only suitable material.

With new cloth that produces a maximum shade, roll the cloth over them at 6 P. M., leaving it until 7 A. M., following morning. With large mums, a few days over three weeks is ordinarily required to set buds, after which, discontinue shading. With the pompons, the shading must be continued after the first or center bud is set. This is necessary to get the side buds set, and usually calls for ten days or 2 weeks longer shading. On October pompons, around 60 days, can be safely figured from the start or shading to cutting of crop. November varieties will run a week or 10 days over this. Big mums will cover about the same time from shading to cutting, the varieties vary in this class.

TO RETARD FLOWERING

This is done thru prolonging daylight with electric lights as already suggested. For mid-season kind, turn on lights about August 20. For December varieties, start a week later. Do not start later, or finished stock will tend to have long necks and sometimes, malformed flowers. Use 40 Watt bulbs with reflectors. Space light 5 feet and high enough to spread the light well over the bed. Turn lights on when darkness is reached and for 3 hours daily. Continue the lighting for three-fourths as many days as it is wished to delay flowering; in other words, if you wish to defer flowering 20 days, keep the lights on them 15 days. It is not considered practical to delay flowering more than 3 or 4 weeks. Take first bud showing after light treatment stops. While the behavior of varieties varies under this treatment, success with the above suggestions has been fairly uniform.

J. FRED PIPER.

HARDY VARIETIES

HARDY GARDEN CHRYSANTHEMUMS

No plants in our gardens attract more attention in the fall of the year than these Hardy Garden varieties. Blooming, as they do, after practically all other garden flowers have passed away, they enliven the autumn landscape with their brilliant flowers so profusely displayed. With reasonable care they are absolutely winter hardy and their acquisition brings a permanent addition to the garden.

While many old favorites may be missing, you may rest assured that they have been replaced by varieties which have proved superior in some desirable characteristic. We believe we have the most worthwhile collection of this class of plants.

Large-Flowered, Double or Decorative

These varieties produce flowers from 2 to 4 inches in diameter and come into bloom by the middle of October.

Ganna. Large free deep bright pink.

Granny Scovill. This is one of the very superior varieties. Large coral bronze flowers of excellent form.

King Midas. A very strong free-flowering early blooming double Korean variety with light yellow flowers sometimes slightly blended with bronze.

Lilian Doty. Large ball-shaped rose-colored sort. Very popular and reliable.

Lorelei. Early double yellow of dwarf compact habit.

Mrs. H. E. Kidder. Large yellow incurved.

Mrs. Sam P. Rotan. Produces perfectly double flowers of brilliant golden-yellow shading to orange. Compact and free.

Murillo. Large old rose.

Natoma. Very bright pink. Dwarf and free.

Oconto. Large white. Vigorous upright grower.

Ouray. Large bronze button of dazzling color.

Rapture. Very colorful, vigorous and free. The double flowers are a deep orange-bronze with a suffusion of carmine.

Ruth Cumming. Deep terra cotta. Free and vigorous.

Silver Tips. A very unique, free-flowering variety. The double blooms are bright carmine with the tips and reverse of the petals silvery white.

Tasiva. Large free-flowering pure white of compact form.

White Doty. Large ball-shaped white variety. Very popular.

Yellow Doty. Same form and habit as Lilian Doty and White Doty, but with deep bronzy yellow flowers.

Any of the above, 2-inch pots:

\$2.50 per dozen

The Public's Choice

This new group will become the most popular in hardy mums.

Burgundy. Most remarkable among the Korean Hybrids. Rich cerise-crimson with deeper center.

Chestnut Burr. Deep chestnut red. Lovely double blooms resembling a Chestnut burr.

Cydonia. Double flowers of a brilliant orange-mahogany. One of the brightest in our collection.

Golden Charm. Very double, deep yellow blooms completely covering the dwarf compact plants.

Jewel. Wonderful ball-shaped lilac pompon. Very attractive and popular.

Judith Anderson. A vigorous variety producing great quantities of good sized button-shaped golden yellow flowers.

Lavender Lady. One of the newest double Koreans. Vigorous plants producing a great abundance of delicate double lavender flowers.

Muldoon. Large purplish amaranth. Very much like Burgundy but not as tall and very compact. Quite double.

Any of the above, 2-inch pots:

\$5.00 per dozen

Hardy Single-Flowered Chrysanthemums

The following list embraces the choicest and most popular single-flowered Hardy Chrysanthemums. Their usefulness, dainty appearance, and free-flowering habit have endeared them to all flower lovers.

Agnes Selkirk Clark. Medium-sized flowers shading from bronzy pink and apricot to salmon.

Aphrodite. Beautiful single blooms of pink and ivory. Very vigorous and profuse.

Astrid. A sturdy hardy pink variety which seems to have some Chrysanthemum articum in its pedigree.

Cosmos. Deep purplish carmine. Most distinct.

Firebrand. Very bright semi-double scarlet.

Indian Maid. Deep orange-terra-cotta—a most appealing color. Vigorous free-blooming plants.

Innocence. An excellent white Korean Hybrid. Very free.

Lemonade. Large lemon yellow duplex.

Louise Schling. Glowing salmon-red changing to bronzy salmon.

Lovelight. Large pale pink duplex flowers on a vigorous plant.

Nancy Copeland. A brilliant red Korean Hybrid with wiry stem.

Pink Lustre. A distinct shade of orchid-pink.

Princess. By all odds the best single white Chrysanthemum among the thousands we have raised. Early and large.

Red Hussar. Duplex flowers of brightest scarlet-crimson on bushy, compact plants. One of the most brilliant.

Saturn. Sparkling orange and bronze.

Sensation. Single yellow with every petal tipped scarlet. Very showy and reliable.

The Chief. An extremely attractive semi-double variety of large size. Brilliant scarlet and gold.

Venus. Single lilac-pink with lavender shading.

Any of the above, 2-inch pots:

\$2.50 per dozen

HARDY GARDEN CHRYSANTHEMUMS—Continued

Small Aster-Flowered and Pompon Chrysanthemums

Under ordinary culture and without disbudding these will produce flowers under two inches in diameter. Their small size does not in any way detract from their effectiveness in the garden, and the dainty flower clusters are particularly useful for table and room decoration.

Cheerfulness. Makes large plants of excellent form, covered with hundreds of small double yellow buttons.

Ethel. Superb bronze button.

Irene. Compact dwarf plant with an abundance of small white button-shaped flowers.

Jean Treadway. Popular small pink Aster-flowered.

Ruth. Very strong wine-colored small Aster.

Cushion Type (Azaleamum)

The well-deserved popularity of this type of dwarf compact growers has led us to prepare good stocks. We highly recommend the following varieties which have proved outstanding in our tests:

Amelia. (Pink Cushion). Very compact and early. Free-flowering light rose. Should be kept pruned back until early August for best results.

King Cushion. Identical with Amelia excepting that the flowers are deep bronzy salmon with a suffusion of rose.

Pigmy Gold. A very distinct dwarf double yellow Korean Pompon growing not over 15 inches tall and producing a great profusion of bright yellow flowers during September and October. A great acquisition and wonderfully appropriate companion to the Cushion varieties.

Queen Cushion. The same type as Amelia and King Cushion but producing pure white flowers.

White Gull. This variety is distinctly of the Cushion type in growth but the flowers, which are pure white are more of a Pompon shape.

Extra Early Double, Large-Flowered

While all the varieties offered by us are early flowering, the following bloom from one to two weeks earlier than the general collection.

Abundance. A wonderful new salmon-red with golden reverse. Exceptionally free-flowering, compact plant.

Aglow. Double flowers of deep bright orange color. Very brilliant.

Aladdin. Sensational early bronze. Because of its tendency to bloom during the summer when Chrysanthemums cannot produce good flowers due to the heat, we advise keeping the plant pruned back until early August.

Carrie. A most satisfactory deep canary-yellow.

Glorietta. Very double ball-shaped light pink. Dwarf and free.

La Somme. Very dependable early mauve-pink.

Chrysanthemum Rubellum Clara Curtis

Chrysanthemum rebellum was originally introduced in a pale pink form as Chrysoboltonia pulcherrima. Later it was offered as Chrysanthemum erubescens and finally as rubellum. It attained quite a bit of popularity as a border plant blooming throughout September. It is now, however, entirely superseded by the new variety Clara Curtis which has considerably more merit. This new variety has very pretty lilac-pink flowers borne on compact plants devoid of the straggly growth of rebellum. We highly recommend Clara Curtis as a September blooming subject for the garden.

Double Flowered Korean Hybrids

Much progress has been made in the last few years in the production of double forms of the popular Korean Hybrids. We offer a choice collection below.

Caliph. Deep oxblood-red with a rich velvety sheen. Very showy and greatly admired.

King Midas. A very strong, early, free-flowering double with light yellow flowers sometimes lightly blended with bronze.

Mandarin. Coral, salmon, and bronze blended to make a very attractive flower. The plant is compact but the blooms are carried on stiff wiry stems.

Saladin. Oriental-red shading to coral-red with coppery tones on reverse of petals. Semi-double.

Sequoia. Elegant, good sized, double blooms of a mellow amber color.

Symphony. Mauve-rose overcast with soft coppery tints giving the flowers an unusually different and attractive appearance. Of strong healthy growth.

Sixteen Extra-Early Flowering Korean Hybrids

These sixteen extra-early flowering Korean Hybrids, introduced in 1936 and 1937 have won universal acclaim. They make graceful pre-flowering plants blooming ten days to two weeks earlier than varieties previously introduced.

Auburn. Compact plants producing an abundance of single flowers, which open a coppery-red and change with age to salmon-flesh.

Fortuna. Very vigorous plants of medium height covered with unique curly-petaled oxblood-red single flowers, 3 to 4 inches in diameter.

Niobe. A vigorous plant of dwarf compact habit. Single clear glistening white flowers with yellow discs covering the plant completely.

Sappho. Compact dwarf plant with an abundance of single yellow flowers.

Stellaris. Large single Buttercup-yellow blooms. Graceful and vigorous.

Vesta. A plant of medium height and great vigor, literally covered with single deep golden-orange flowers over 2½ inches in diameter.

Any of the above, 2-inch pots:

\$2.50 per dozen

FLOWER SEED NOVELTIES

CHRYSANTHEMUM

Japanese. Special strain of semi-double and single Decorative varieties. In mixture of all shades of color.

Piper's Cascade Mixed

These seeds are especially selected from the very best Cascade Chrysanthemums — therefore, the plants raised from our seeds invariably produce excellent racemes of flowers.

Piper's Hybrid Early Flowering Mixed

An extensive range of attractive colors that will give a truly marvelous effect. It includes a large percentage of semi-double and double flowering plants which have proved most popular with the public.

Piper's Korean Hybrids Mixed

Quality of our Korean Hybrid Chrysanthemums have resulted in an extra fine strain of superb beauty. Their earliness to bloom, the size of the individual flowers, and the magnificent color range will provide a spectacle beyond description.

Japanese Double Anemone-Flowered. A beautiful strain with lovely quilled flowers. Contains a marvelous assortment of many bright and vivid colors. Though this really is a perennial in well-drained ground and where it is properly protected, the plants may be grown as annuals if sown early in the spring.

Any of the above

\$1.00 per packet

PANSIES, PIPER'S GIANT FREE-FLOWERING—3 FEET TALL

A tall growing winter flowering variety that is remarkably free-flowering. Long stemmed particularly adapted for growing under glass for cut flower purposes.

\$1.50 per packet

CARNATION SEED

English Varieties—\$1.00 per packet

Hardy English Varieties—\$.50 per packet



PLANT NOVELTIES

Marguerite. Piper's Improved Yellow. A much improved type. Blooms continuously if grown in pots. The individual flowers measure from 2 to 2½ inches— borne on stems measuring from 12 to 15 inches long.

Marguerite. Piper's White Wonder. Early flowering. Sport of the above variety.

Plants from 2½ inch pots—\$.25 each

Azalea. Snow White. Large, pure white, flowers. Evergreen foliage of a deep green.

\$2.50 each for the small plants

\$5.00 each for the large plants

Nasturtium. Double Salmon Pink Nasturtium. This beautiful plant continues to bloom during the Winter months. Large flowers, 9 to 12 inch stem.

\$.50 each; \$5.00 per dozen

Spiraea. Flame. Lovely shade of red. Very useful for forcing at Christmas time.

\$1.00 per plant

\$10.00 per dozen plants

CARNATIONS

WHITE

	Price	
	Per 25	Per 100
Gardenia. White	\$5.00	\$18.00
Olivette. Popular new white.....	5.00	18.00
Puritan. Prolific commercial white....	4.00	14.00
Patrician. Large white	4.00	14.00
Snow White. Large white seedling....	4.00	16.00
White Maytime. New pure white sport	5.00	18.00
White Peter Fisher. New white sport	4.00	16.00

LIGHT PINK

Albania	\$5.00	\$18.00
Berkshire Hills. Salmon pink	4.00	16.00
Charm. Salmon pink	7.50	30.00
Eleanor. Light salmon pink	4.00	14.00
Giant Laddie. Salmon pink	5.00	20.00
Hermosa. Beautiful new light pink ..	5.00	20.00
Light Pink Abundance	4.00	16.00
Peter Fisher. Prolific medium pink ..	4.00	16.00
Maytime. Prolific light pink	4.00	16.00
Mrs. C. B. Johnson. Light salmon pink	4.00	16.00
Pollyanna. Salmon flesh	7.50	30.00
Pink Treasure. Light medium pink ..	4.00	16.00
Ruth Hengstenberg. Flesh pink	5.00	20.00
Sea Shell. Lovely shell pink seedling ..	5.00	20.00
Virginia. Enchantress pink	4.00	14.00
Vivian. Medium pink	5.00	20.00

SELECTED STOCK

Improved Giant Laddie	\$25.00
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DARK PINK

Carlotta. Dark pink	\$3.50	\$12.00
Clark's Beauty. Dark pink	4.00	16.00
Dark Pink Virginia. Lovely rose pink ..	4.00	16.00
Dark Pink Maytime. Fine dark pink sport	5.00	20.00
Dirigo. New dark pink	4.50	18.00
New Deal Ward. Deep pink.....	4.00	14.00

Paragon. Deep pink.....	4.00	16.00
Rosalie. Dark medium pink.....	5.00	20.00

RED

Johnson's Crimson. Most prolific crimson	\$3.50	\$14.00
Joyce. Fine new crimson.....	5.00	18.00
King Cardinal. Scarlet.....	5.00	18.00
Rigoletto. Crimson	5.00	18.00
Royal Purple. Crimson purple.....	3.50	14.00
Spectrum Supreme. Scarlet.....	3.00	12.00
Seth Parker. Bright crimson	5.00	18.00
Woburn. Most popular crimson.....	3.00	12.00

YELLOW

Moonbeam. Yellow	\$5.00	\$18.00
Maine Sunshine. Only clear yellow ..	4.00	16.00
Yellow Gold. Yellow.....	5.00	18.00

VARIEGATED

Golden Wonder. Yellow variegated ..	\$3.50	\$14.00
Barbara Brigham. Orange variegated	3.50	14.00
Chief Kokomo. Yellow variegated ..	5.00	18.00
Improved Delicacy. White variegated	4.00	16.00
Lenora. Pink and white variegated ..	3.50	14.00
Opal. Purple and white variegated..	5.00	18.00
Potentate. Purple	3.50	14.00
Pelargonium. Valuable orchid novelty	5.00	18.00
Pharaoh. Beautiful large orange novelty	4.00	16.00

Rooted cuttings will be ready December. Orders will be filled in strict rotation.

HARDY BORDER CARNATIONS

	Per Dozen
Assorted Colors	\$ 3.00
Dianthus Beatrix Varieties	3.00

CULTURAL SUGGESTIONS

The majority of experienced growers realize that different varieties of carnations react in varying fashion to soil, climatic and cultural conditions just as individual humans react differently to any given condition. One variety is a heavier feeder than another. One requires more moisture. One variety grows tall and thin while another bushes heavily from the base of the plant. Some do best when topped early, others may be topped successfully late into the season. Some are best propagated in January while with others it makes little difference when they are topped. The flowers of some varieties will not

keep well in one climate, but keep perfectly in another. And so it is almost impossible to lay down definite rules to be followed in all sections with all varieties of carnations. Experience and common sense must dictate many of the rules.

Nevertheless, certain suggestions may be offered which will be of value to many growers.

We hope that the brief information contained herein will be of some value. We are pleased to answer inquiries regarding any phase of carnation growing not covered here to the best of our ability. Please do not hesitate to call upon us.

CARNATIONS—Continued

FERTILIZER

There is one question which we cannot answer. There is no "best" fertilizer. Soil and climatic conditions vary so greatly that it would be impossible to intelligently advise what fertilizer to use without a complete analysis of the soil and some knowledge of climatic conditions. Therefore, we advise that if doubt exists, a grower send a sample of his soil to the nearest state college or experiment station and receive advice from these sources. We like to build up our soil in the field through the use of cover crops, cow manure and commercial fertilizer so that it is adequately supplied with the major nutrients prior to benching. If soil is built up in this fashion, no further fertilizer will be required for several months. From then on, only a soil analysis and a knowledge of your conditions can determine what you should do.

INSIDE VS. OUTSIDE PLANTING

We have heard a lot recently about the advisability of carrying carnations inside rather than planting them in the field. It has been our experience that as long as the field plants can be kept free of diseases and as long as the season is not excessively wet, field plants are superior to inside grown plants in almost every instance. Inside grown plants will flower earlier and with longer stems, but they do not have the strong, vigorous growth of field plants, and the later plants will soon catch up and will invariably yield the heaviest crop throughout the season. Great care must be exercised with plants grown inside in order that they do not become crowded, starved, pot bound or checked in any way.

RED SPIDERS

Of course control in the field must be by means of spray or dust. We prefer to spray as little as possible, for there are very few sprays which will not injure the plants if used frequently. In any event, we try to avoid the oily sprays which remove the bloom from the carnation foliage. Rotenone sprays are the best and safest. Results depend very largely upon the thoroughness of application, for these sprays kill by contact. By far the best method of control inside is by the use of liquid fumigants having a naphthalene base. Growers have had varying success with the use of dusts. Dusts must be used carefully, and cannot be used safely after the plants commence to flower. On bright, warm days, plants may be syringed with a fine spray of water under pressure. This also checks the transpiration of moisture from the foliage. This practice cannot be followed wherever fungus diseases are present.

RUST

Sulphur is the most effective preventative or cure for rust. Use a very fine dusting sulphur and apply it with a blower. Use it on the young plants as soon as the first sign of rust appears. It is best applied on a bright, warm day, and may safely be used once a week or oftener. In light soils the sulphur may cause

an acid reaction, but this is easily overcome. It is not advisable to use sulphur on plants in the propagating bench, nor on plants being grown in gravel or cinders. In fact you should consult your experiment station before using any spray or dust on plants in cinders or gravel.

SPOT OR BLIGHT

Spot or blight caused by the fungus *Alternaria dianthi* may be largely prevented by spraying field plants regularly with Bordeaux Mixture. This is not a positive preventative, but it is generally effective. After benching, this fungus causes branch rot, especially among several varieties which are particularly susceptible. *Alternaria* is not carried in the blood stream of the plant, and any variety that is susceptible may be attacked.

STEM ROT

This is caused by a mold, *Rhizoctonia*, which inhabits practically all soil and which attacks almost any plant. Stem rot IS NOT CARRIED WITH CUTTINGS. Ordinarily the mold is an innocent soil fungus, but under favorable conditions it becomes a serious disease. It thrives under excessively moist and warm soil conditions. Control is a matter of correct watering, airing, sanitation, shallow planting, soil rotation and soil sterilization. Acidity, alkalinity or fertility of the soil within the limits of good plant growth are of no value in the control of the disease. Spraying is useless. Steam sterilization is recommended, although sterilized soil may easily become re-infected if plants are brought in from the field.

FUSARIUM BRANCH ROT

This begins with the yellowing and wilting of a single branch. Eventually the affected branch dies. If the branch is removed before the disease has progressed down into the stem, the plant may be saved. The fungus enters the conductive tissue under the bark, travels down into the stem, and eventually kills the entire plant. The fungus enters through injuries caused by careless handling, too rapid growth, topping, picking, etc. It may be carried in the cuttings. Soil sterilization is of no value, and there is no spray which will prevent or cure it. Injuries should be prevented. The same warm, moist conditions which are favorable to other fungus diseases will also encourage the growth of *Fusarium* rot.

APHIDS AND THRIPS

These are comparatively minor problems, and are easily cleaned up, although thrips will continue to blow in from outside as long as ventilators are open. Nicotine in one form or another is the best cure. We prefer nicotine fumigation.

SPLITTING AND BRITTLENESS OF STEM

We would like to be able to list a cure for these two conditions, but not enough is known definitely about the causes for us to offer advice. Many growers ask us about these conditions, and we take this opportunity to admit that research in this field is still in the experimental stage as far as we know.

CARNATIONS—Continued



1. Cuttings to be taken for propagation.
2. Cutting prepared for sand.
3. Cuttings being placed in sand.
4. Rooted cutting.
5. Plant ready for first topping.
6. Plant six weeks after topping.

Selection in cuttings is all important

GLADIOLUS

UP-TO-DATE VARIETIES

*High-Crowned Top-Size Bulbs Only.
Treated Against Thrip.*

	Price	
	Per 25	Per 100
A. B. Kunderd. Creamy pink, ruffled	\$1.25	\$4.00
Aflame. Large flame-red	1.50	5.00
*Albania. Pure white	1.25	4.00
*Albatros. One of the best white varieties	1.50	5.00
*Alice Tiplady. (P.) Orange	1.00	3.50
Annie Laurie. (PG.) Light appleblossom-pink	1.25	4.00
*Apricot Glow. (PG.) Tall, clear apricot	1.25	4.00
Ave Maria. Tall medium blue; early	2.50	8.00

	Price	
	Per 25	Per 100
Bagdad. Large smoky old rose	1.50	5.00
Berty Snow. Lavender	1.50	5.00
*Betty Nuthall. Coral-pink, large and tall; late	1.50	5.00
*Break O' Day. La-France-pink	1.50	5.00
*Byron L. Smith. Choice lavender; early	1.50	5.00
Canberra. Large deep yellow; outstanding	2.00	7.00
*Captain Boynton. Large lavender	1.50	5.00

GLADIOLUS—Continued

	Price			Price	
	Per 25	Per 100		Per 25	Per 100
Chas. Dickens. Radiant purple	1.50	5.00	*Mrs. F. Pendleton. Rose-pink, deep blotch	1.25	4.00
Cherry Red. Tall early red	1.25	4.00	Mrs. F. C. Hornberger. Large, pure white	1.25	4.00
*Commander Koehl. Blood-red; very large	1.50	5.00	*Mrs. F. C. Peters. Lavender; late	1.50	5.00
Crimson Glow. Rich crimson	1.25	4.00	Mrs. Leon Douglas. Giant pink	1.50	5.00
Debonair. La-France-pink, cream throat	1.50	5.00	Mrs. P. W. Sisson. Clear cameo-pink ..	1.25	4.00
*Dr. F. E. Bennett. Brilliant scarlet	1.25	4.00	Mrs. Van Konynenburg. Popular light blue	1.75	6.00
*Dr. Moody. Choice lavender; early ..	1.50	5.00	Nancy Hanks. Orange; very choice ..	1.25	4.00
*Early Dawn. Geranium-pink; very early	1.50	5.00	Odin. Deep salmon-pink; early	1.25	4.00
*E. J. Shaylor. Deep rose, ruffled, early ..	1.25	4.00	*Orange Queen. (PG.) Apricot-yellow ..	1.50	5.00
*Elizabeth Tabor. Very early pink	1.25	4.00	Pelegina. Deep blue-violet	2.50	8.00
Evelyn Kirtland. Tall dark pink	1.25	4.00	Persia. Velvety maroon; splendid	1.75	6.00
*Flaming Sword. Early, deep red	1.25	4.00	Pfizer's Triumph. Large bright salmon-on-orange	1.75	6.00
*Gate of Heaven. Fine rich yellow, ruffled	1.25	8.00	*Picardy. Sensational shrimp-pink	1.25	4.00
*Giant Nymph. Very popular tall pink ..	1.25	4.00	*Polar Ice. Early large pure white	2.50	8.00
Gloriana. Rich salmon	1.25	4.00	*Pride of Wanakah. Deep rose, deeper blotch	1.25	5.00
*Gold Eagle. Early yellow	1.25	4.00	*Primrose Princess. Fine light prim-rose-yellow	1.75	6.00
Golden Dream. (PG.) Best golden-yellow	1.25	4.00	Purple Glory. Ruffled purple-maroon ..	2.00	7.00
Golden Frills. Deep yellow, pencilled rose	1.25	4.00	*Queen of Bremen. (PG.) Bright lavender; early	1.50	5.00
Golden Measure. Clear deep yellow ..	1.50	5.00	*Red Phipps. Splendid red	2.00	7.00
*Helga. Salmon-rose	1.25	4.00	Ruth Huntington. Tall lavender; ruffled	1.75	6.00
Herada. Pure mauve	1.25	4.00	*Salbach's Orchid. Large clear orchid-pink	2.50	8.00
Jenny Lind. Soft apricot-pink	1.25	4.00	*Scarlet Princeps. (See Virginia)	1.50	5.00
Joe Coleman. Very good ruffled red ..	1.25	4.00	Schwaben Girl. Large, early pure pink	2.50	8.00
*Kunderd's Yellow Wonder. Good soft yellow	1.50	5.00	Sonatine. New. Soft pink, large and tall	2.50	8.00
*Lady Marie. Grenadine-pink	1.75	6.00	*Souvenir. (P.) Pure yellow; early	1.25	4.00
La Paloma. New orange; very tall	1.25	4.00	*Star of Bethlehem. New. Largest pure white	3.00	10.00
*Lily White. Pure white	1.25	4.00	The Orchid. (P.) Pure orchid; lacinated	1.75	6.00
*Los Angeles. Salmon-pink; tall spike ..	1.25	4.00	*Thomas Edison. Salmon-pink	2.00	7.00
*Maid of Orleans. Perfect creamy white	1.50	5.00	Veilchenblau. Blue-violet	2.50	8.00
Mammoth White. Large exhibition white	1.75	6.00	*Virginia. Intense scarlet-red	1.50	5.00
Margaret Fulton. Large rose-pink	1.50	5.00	*Wasaga. Very beautiful buff	1.75	6.00
Marmora. Lavender-gray; large	1.50	5.00	W. H. Phipps. Beautiful pink; late	1.50	5.00
*Mary Pickford. Creamy white; early ..	1.25	4.00	Exhibition Mixed. Very choice	1.25	4.00
*Minuet. Delicate lavender; late	1.50	5.00	Popular Mixed. Well balanced	1.00	3.00
Morocco. Large glistening deep black-red	1.50	5.00	Primulinus Mixed	1.00	3.00
Mother Machree. Golden smoke shade	2.50	8.00			
*Mrs. E. J. Heaton. Glowing salmon, cream throat	2.50	8.00			
Mrs. Francis King. Light scarlet	1.25	4.00			

*Good for forcing.

(P) Primulinus variety.

ASSORTMENT OF TABLE FERNS



Lygodium scandens
(Climbing fern)



Pteris Rivertoniana



Pteris albo-lineata



Pteris tremula



Cyrtodium Rochfordianum



Pteris Parkerii

3" Pots \$.25 each; \$2.50 per dozen
\$15.00 per 100

GREENHOUSE PLANTS

	Dozen	100		Dozen	100
Asparagus plumosus nanus. Graceful, climbing Asparagus; beautiful, feathery foliage	\$2.00	\$15.00	Stewarti. A bright yellow variety....	6.00	50.00
Sprengeri. Fine for baskets.....	2.00	15.00	Cineraria hybrida , 2¼-in. pots.....	1.00	15.00
Begonia Lady Mac. A beautiful shade of pink	6.50	50.00	Stellata , 2¼-in. pots.....	1.00	15.00
Marjorie Gibbs. Improved Lorraine	6.50	50.00	Cyclamen (Giant Flowering). Best strain.		
Melior. A more vigorous type of Lorraine	6.50	50.00	Pure White , 3-in. pots.....		35.00
Bouvardia. Single pink or white.....	3.00	20.00	White with Pink Eye , 3-in. pots.....		35.00
Buddleia asiatica. White.....	3.00	20.00	Pink , 3-in. pots.....		35.00
Farquhari. Pale pink	3.50	25.00	Salmon , 3-in. pots.....		35.00
Calceolaria, Mixed hybrida grandiflora	4.00	25.00	Red , 3-in. pots.....		35.00
Lymani. Cinnamon red.....	6.50	50.00	Diplacus glutinosus. An excellent greenhouse plant producing an abundance of orange or pale buff flowers. 3-in. pots.....	4.00	30.00
Medfordi. Velvety maroon.....	6.00	50.00	Erlangea tomentosa , 2¼-in. pots.....	4.00	30.00
			Euphorbia jacquinaeflora , 2½-in. pots.....		30.00

GREENHOUSE PLANTS—Continued

	Dozen	100		Dozen	100
Ferns:			Rosabelle. Large deep pink flowers	3.50	25.00
Adiantum cuneatum , 3-in. pots	5.00	40.00	Lorelei. Bright carmine.....	3.50	25.00
Adiantum gloriosum , 3-in. pots.....	9.00	70.00	Marechal Foch. Deep carmine.....	3.50	25.00
Adiantum gracillimum , 3-in. pots....	5.00	40.00	Marguerites, White , 3-in. pots.....	3.00	25.00
Nephrolepis bostoniensis , 2¼-in. pots		15.00	Boston Yellow , 3-in. pots.....	3.00	25.00
Nephrolepis, Teddy, Jr. , 2¼-in. pots		15.00	Orchids. Quotations given.		
Nephrolepis, Verona , 3-in. pots.....	7.00		Primula obconica grandiflora	2.50	15.00
Small Ferns in variety, for Fern dishes, 2½-in. pots.....		12.00	Malacoides, Superba. Delicate lilac. Free flowering.....	2.00	12.00
Gardenias:			Stevia serrata. Dwarf or tall.....	2.50	15.00
Hadley , 2¼-in. pots.....		28.00	POINSETTIA		
Pride of Daisy Hill , 2¼-in. pots.....		25.00	Barbara Ecke , 2¼-in. pots.....	3.00	25.00
Veitchii , 2¼-in. pots.....		20.00	Henrietta Ecke , 2¼-in. pots.....	3.00	25.00
Gerbera jamesoni Hybrids	10.00	75.00	Mrs. Paul Ecke , 2¼-in. pots.....	3.00	25.00
Hydrangeas. May-June delivery, 2¼-in. pots	3.50	25.00	Oak Leaf , 2¼-in. pots.....	3.00	25.00
Deutschland. One of the finest. Flowers large, deep pink overlaid with salmon.....	3.50	25.00	Pink , 2¼-in. pots.....	3.00	25.00
Altoona. Light carmine, fringed flowers	3.50	25.00	Ruth Ecke , 2¼-in. pots.....	3.00	25.00
Merveille. Beautiful shell pink, early	3.50	25.00	White , 2¼-in. pots.....	3.00	25.00
Gertrude Glahn. Deep rose pink, large flowers	3.50	25.00	Christmas Star. New, 2¼-in. pots.....	5.00	35.00
Goliath. Rose pink. Extra strong grower	3.50	25.00	SAINTPAULIAS (African Violets)		
				Per Dozen	
			Admiral , 2¼-in. pots.....	2.50	
			Blue Boy Supreme , 2¼-in. pots.....	2.50	
			Norseman , 2¼-in. pots.....	2.50	
			Sailor Boy , 2¼-in. pots.....	2.50	

FRUIT TREES and BERRY BUSHES

FIG TREES

Magnolia Fig. One of the hardiest species, doing well where the winters are not too severe. Fruit very large and of rich straw color. Fruit begins to ripen the last of June and continues to put on new fruit until frost.

Brown Turkey. Very hardy, dwarfish and prolific. Fruit medium size to large, pear shaped, skin copper brown, flesh white shading to pink, quality good.

Celeste. Most widely planted of all figs in the south-eastern fig areas. It is hardy and can be grown where less hardy varieties fail. Fruit is medium in size, pear shaped, skin violet, flesh white to rose color, firm, juicy, sweet and of excellent quality; ripens early.

Everbearing Type. Characteristics similar to the Brown Turkey, otherwise it starts to bearing in the season and continues to bear fruit throughout the growing season into late fall. This variety is very attractive as to bush and is used much for ornamental purposes.

Prices All Fig Varieties:

2 to 3 feet, \$1.75 each

THE NEW SURE CROP NECTARINE

Imported to this country from New Zealand. The tree is vigorous and productive. The fruit is large, roundish white and overlaid with very attractive red. The flesh is firm, tender, free from stone, and very pleasing flavor. Late mid-season.

Rubired (Nectarine). The fruit is of large size, smooth skin, fine red color and excellent quality, with winery flavor which is particularly pleasing.

We recommend this new nectarine for trial only feeling that the beauty and quality of the fruit is such that it will gain in popularity wherever it may be grown.

Prices of all Nectarines:

	Each
2-3 feet	\$1.40
3-4 feet	1.50
4-5 feet	1.55
5-6 feet	1.65

FRUIT TREES AND BERRY BUSHES—Continued

APRICOT TREES

Moorpark. Largest, orange-yellow flesh, sweet juicy and rich. August.

Early Golden. Good variety, very large, deep golden-yellow, fine quality. Tree large, thrifty, hardy. Fruit beautiful, yellow flesh, firm and solid.

Budd. Tree vigorous, upright, productive. Fruit very early, oval and flattened. Skin golden-yellow, tinged with red on exposed side. Flesh bright orange-yellow, juicy and sweet. Semi-cling.

MOHR'S APRICOT

It is extremely hardy, bearing often when peaches fail; very productive. Fruit is large and a freestone. Flesh firm, solid and excellent quality. Colors a deep golden yellow, ripens early in July. All Apricot budded on Plum root.

Apricots—All Varieties:

	Each
4-5 ft., 9 to 11/16 cal.....	\$1.60
3-4 ft., 7 to 9/16 cal.....	1.50
2-3 ft.	1.45

PEACHES

One-year Buds

	Each
No. 1 Grade, 9/16 in. and up	\$1.00
Medium Grade, 7/16 to 9/16 in.	1.00
No. 2 Grade, 5/16 to 7/16 in.	1.00
Carman. White. Early.....	1.50
Champion. White. Mid-season.....	1.50
Early Elberta. Early. Yellow.....	1.50
Eclipse. Yellow. Mid-season.....	1.50
Elberta. Yellow. Early.....	1.50
Hale Haven. Yellow. Medium early.....	1.50
Rochester. Yellow. Early.....	1.50
South Haven. Yellow. Mid-season.....	1.50
Vedette. Medium size yellow freestone. Very fine quality for home and stand. Early.....	1.50

GRAPES

Two-year, No. 1 Grade

Catawba. Red. Late.....	\$.50
Concord. Black. Early.....	.50

Delaware. Red. Late.....	.50
Moore's Early. Black. Early.....	.50
Niagara. Green. Early.....	.50
Worden. Black. Early.....	.50

JAPANESE PERSIMMONS

The Japanese persimmon is adapted to most regions in the south and can be raised successfully as far north as Penna. The trees are vigorous of growth and bear young, the fruit is well known in the markets and commands good prices. We offer two of the most popular varieties.

Yemon. Fruit is large to very large, bright yellow and generally seedless. Flavor is brisk and very good. Skin is smooth without any tinge of red.
Each \$1.50

Tane-Nashi. Large to very large, conical in shape. Light yellow changing to red as the fruit ripens. Flesh is astringent until fully ripe when it acquires a delightful flavor that is characteristic of the fruit.
Price: 3 to 4 feet, \$1.60 each

QUINCE TREES

Orange. Roundish bright golden yellow, very large, fine grained, fine quality. Best for cooking. Firm, will stand shipping.

Champion. Fruit very large, fair and handsome. Bears abundantly while young; flesh cooks as tender as an apple without hard spot and cores; flavor delicate; quince taste.

	Each
2 year, 4 to 5 ft.....	\$1.60
2 year, 3 to 4 ft.....	1.50

Name of Variety	Price Per Doz.
Dewberry, Austin	\$ 1.90
Blackberry, Dallas	1.90
Blackberry, Early Wonder	2.50
Huckleberry	5.50
Elderberry	15.00
Raspberry	1.90
Youngberry	2.50
Loganberry	14.00
White Blackberry	10.00

Prices on other Fruit on request

HARDY PLANTS

RECENT INTRODUCTIONS

We offer here a list of some of the very newest introductions in Perennials, also a list of the better varieties of recent introduction now available in large quantities.

FALL ASTERS

	Each	Per Doz.
Beechwood Challenger. A new variety from England, of medium height, and the most brilliant crimson-red to date	\$.50	\$5.00

	Each	Per Doz.
Dazzler. Open, rigid, freely branched growth. The flowers are semi-double, of brilliant rose-red. It is a new shade of colors in Hardy Asters, a great advancement and an outstanding plant. Grows 4 feet high.....	.50	5.00

HARDY PLANTS—Continued

	Each	Per Doz.
Harrington's Pink. Should be included in every garden. The only really truly pink tall Aster available.....	.50	5.00

CAMPANULA

Persicifolia, Telham Beauty. Perfectly beautiful spikes 3 feet tall with immense flowers50	5.00
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HELENIUM

Peregrina. Is unquestionably the largest flowered of the tall growing bronze-colored Heleniums. A well-grown plant is perfectly beautiful in the late summer border.....	.50	5.00
Chipperfield Orange. Is the best of the late growing copper-colored varieties. Do not overlook the two lovely dwarfs for August bloom50	5.00

BUDDLEIA (Butterfly Bush)

	Per Doz.
Orchid Beauty. A new shade in buddleia, 2½-in. pots	10.00
Concord, 2½-in. pots	5.00
Eleanor (Eleanor-blue), 2½-in. pots.....	5.00
Dubonnet. True red, 2½-in. pots.....	5.00
Charming. Clear pink, 2¼-in. pots.....	3.00
Superba. Best of the double, 2¼-in. pot	3.00
Hartwegi. The best lavender, 2-in. pots	3.00
Ile De France, 2-in. pots.....	3.00

HELIOPSIS

	Each	Per Doz.
Scabra Incomparabilis. Comes from France and is an excellent early summer hot weather plant; fine for cutting as well as the border.....	.50	5.00

LIATRIS

Scariosa, September Glory. September Glory makes a spike about 6 feet tall which is covered from top to bottom with flowers. It is in bloom for a long time, making a magnificent display in late summer.....	.50	5.00
Scariosa, White Spire. This white variety is a sport from the above.....	.50	5.00

ORIENTAL POPPY

Snowflake. A most unusual break in the coloring of Poppies. "Sensational" is what several Poppy fanciers said when they saw this variety for the first time. Lower part white, upper part a flame-orange. Fortunately, an excellent grower.....	.50	5.00
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GIANT STOKESIA

Blue Moon. Big 5- to 6-inch blue disc-like flowers on good 24-inch long		
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	Each	Per Doz.
stems. Blue Moon is a really fine border plant which requires little care50	5.00

HARDY PENTSTEMON

Garnet. Three years ago this variety was sent us from Europe as a hardy large-flowered variety. It has stood the cold test successfully and we are happy to be able to introduce this handsome garnet-colored plant.....	.50	5.00
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PHLOX

Marie Louise. For absolute white and excellent heads, nothing beats Marie Louise, introduced last year. It will be tops in white for many years to come35	3.00
San Antonio. San Antonio has surprised us again with its brilliance. A color for "men only" as it were, vivid Peony-purple with rich glow of plum. The hottest sun does not fade it; a stately plant growing next to Hemerocallis Hyperion35	3.00
George Stipp. George Stipp is one of those salmon-pinks so hard to describe, sufficient that it is one of the best in that shade and a magnificent free bloomer.....	.35	3.00

SHASTA DAISY, ESTHER REED

The Everblooming Double Shasta.

The first truly double variety. Undoubtedly one of the finest introduced in recent years. An abundance of pure white flowers of good, lasting quality are borne on strong upright stems. The individual blooms measure 4 inches in diameter. The flowers appear continuously throughout the summer and fall. It grows about 18 inches high, makes a fine clump; blooms from June to October. Potted plants—Each \$1.00; Per 10—\$7.50.

	Each	Per Doz.
Shasta Daisy Chiffon (Chrys. Max.) A daintily frilled Shasta which grows about 18 inches tall. The flowers are formed by a double row of narrow petals frilled and flared at the edges. The center is a clear yellow. The flower is about 3 inches across. The general effect in the garden and in a vase is one of light airiness and pleasing daintiness	\$.40	\$4.00
Shasta Daisy White Swan. Clusters of pure double, pyrethrum-like flowers on strong stems. Ideal for cutting, late May-June; 2½ feet; very free bloomer25	2.50

HARDY PLANTS

NEW INTRODUCTIONS

NEW DWARF ASTERS

CONSTANCE—A really pure shell-pink, a delightful color, of very graceful habit. October. 9 inches.

ASTER NOVA BELGI VIOLETTA—The deepest and richest blue of all the Michaelmas Daisies, it forms rounded bushes about two feet high entirely covered during September with masses of semi-double violet blue blooms. Late Spring delivery only.

2 1/4" Pots \$5.00 per Dozen; \$35.00 per 100

AJUGA GENEVENSIS PINK SPIKES—The cheerful pink spikes of this hardy shade loving plant make a delightful contrast to its blue companion Genevensis in early Spring. Both are excellent for ground covers in shady spots.

\$3.00 per Dozen; \$20.00 per 100

CARNATIONS — Hardy Border

per doz. 100

Crimson King—Here is an outstanding hardy Carnation for the garden, flowering throughout spring, summer, and fall, not shyly but with remarkable freedom. Dazzling crimson flowers on stiff, stocky stems, long enough for cutting. It is exceptionally hardy, growing anywhere. Does not get "lanky" or untidy. A great plant for the border \$4.00 \$20.00

King of Black—Similar to the other kinds in habit; its flowers are of the deepest maroon, almost black. 3.00 15.00

Rose Queen—Prolific blooming. Excellent for cutting and garden planting, this rose-pink Carnation is much desired 3.00 15.00

Scarlet and Red Shades—Dozens of double and single red and scarlet flowers on long stems, lovely for cutting, are produced during June and July 3.00 15.00

White Shades—The same as above but with single and double white flowers 3.00 15.00

White Gold—A fine pale yellow form. Just as free as the others 3.00 15.00

Mixed Shades—A riot of color and flowers in great abundance in June and July, are the result from just a few plants. Cut back all flower stems when through blooming 3.00 15.00

Dianthus Silver Mine—A snowy white form of the popular Beatrix, with all its hardiness and free flowering habits 4.00 25.00

Geum Red Wings—A brilliant strawberry red, yellow centered companion to Fire Opal and Princess Juliana. Very free flowering and sure to be popular 3.00 20.00

VIOLA ODORATA

White Jersey Gem—Attractive used for contrast 2.50 20.00

Perfection—Light blue flowers all Summer 2.20 18.00

Purple Glory—6 in. Fragrant royal purple flowers produced very early in Spring and continuously throughout the Summer. Very hardy and free.. 2.50 20.00

Beauty of Larone (York Gem)—The finest of all the hardy violas in our opinion. The violet blue flowers in Spring are as large as the largest pansy, it starts to flower early and continues throughout the summer. Perfectly hardy 3.00 25.00

White Perfection—Pure white 2.20 18.00

GYPSOPHYLLA, PINK

The pale pink blossoms are very dainty and grow in great open foamy heads, ideal for cutting. They work in even more charmingly between cut flowers than the white. The pink shade is delicate when it first opens, but deepens considerably when it matures during September and October and becomes more valuable as it is the only variety available at this time of the year. 3 feet tall. \$5.00 per Dozen.

PEROVSKIA — Russian Sage

Atriplicifolia—Produces whorls of blue flowers very late in the season. A lovely plant for the hardy border. The delicate lacy blue-gray foliage makes a stunning foil for other flowers. 24 to 30 inches high. \$5.00 per Dozen.

SPECIAL OFFER FOR SPRING DELIVERY

12 Hardy Chrysanthemums	Prepaid	\$ 2.50
6 Chinese Hardy Chrysanthemums,		
New	Prepaid	\$ 2.00
6 Garden Rose Bushes	Prepaid	\$ 2.50
6 Delphiniums . White . Pink . Blue	Prepaid	\$ 2.50
6 Azaleamums . Pink . White . Yellow	Prepaid	\$ 2.00
		<u>\$11.50</u>

The entire group special, cash with order..... \$10.00
Garden book with cultural directions sent upon request.

PIPER'S - Livingston New Jersey

STANLEY YOUNG

NEW YORK

PIPER 2 - Livingston New Jersey

ROSE BUSHES

ROSES—BUSH VARIETIES

Autumn. (H.T.) yellow, bronze and red.
Annie Laurie. (H.T.) flesh pink.
Briarcliff. (H.T.) vivid pink.
Betty Uprichard. (H.T.) copper and red.
Columbia. (H.T.) bright pink.
Chas. K. Douglas. (H.T.) crimson.
Cynthia. (H.T.) orange pink.
Commonwealth. (H.T.) pink.
Dame Edith Helen. (H.T.) pink, large.
Duchess of Atholl. (H.T.) old rose and golden.
Duchess of Wellington. (H.T.) carmine yellow.
Etoile De Holland. (H.T.) lovely dark red.
E. G. Hill. (H.T.) dazzling red.
Etoile De France. (H.T.) lively red.
Editor McFarland. (H.T.) pink and yellow.
Frau Karl Druschki. (H.P.) large white.
Golden Dawn. (H.T.) bright golden.
Gruss an Teplitz Red. (H.T.) red.
Gruss an Teplitz Pink. (H.T.) pink.
Golden Ophelia. (H.T.) yellow and gold.
General McArthur. (H.T.) scarlet crimson.
Lord Charlemont. (H.T.) crimson red.
Los Angeles. (H.T.) salmon pink.
Golden Rapture. (H.T.) golden yellow.
Harrison's Yellow. (Spn.) yellow.
Irish Eloquence. (H.T.) white and pink.
Independence Day. (H.T.) bright yellow.
J. J. L. Mock. (H.T.) soft pink.
J. Otto Thilow. (H.T.) rose pink.
Kaiserin Auguste Victoria. (H.T.) double snowy white
Killarney Pink. (H.T.) clear pink.
Killarney Double White. (H.T.) pure white.
Lady Ashtown. (H.T.) deep pink and coral.
La France. (H.T.) silvery pink.
Lady Margaret Stewart. (H.T.) golden yellow to orange red.
Martha Washington. (H.T.) dark pink.
McCredy's Scarlet. (H.T.) scarlet red.
Miss Rowena Thom. (H.T.) fiery rose.
Mrs. Charles Bell. (H.T.) shell pink.
Mme. Caroline Testout. (H.T.) clear pink.
Mme. Jules Bouche. (H.T.) large white.
Mrs. Aaron Ward. (H.T.) indian yellow.
Mrs. John Cook. (H.T.) clear pink.
Mrs. Henry Bowles. (H.T.) glistening pink.

Mrs. Pierre S. Dupont. (H.T.) golden yellow.
Mrs. E. P. Thom. (H.T.) bright yellow.
Mrs. Henry Morse. (H.T.) flesh carmine, rose tints.
Pink Druschki. (H.P.) rose pink.
Radiance Red. (H.T.) the best red.
Radiance Pink. (H.T.) the best pink.
Radiance Shell. (H.T.) the best shell.
Radiance Texas White. (H.T.) lovely white.
Rev. F. Page Roberts. (H.T.) yellow, red tints.
Red Druschki. (H.P.) red F. K. Druschki.
Talisman. (H.T.) red, old gold, yellow.
Thomas A. Edison. (H.T.) lavender pink.

\$.75 each; \$5.00 per dozen

POLYANTHAS

(Baby Doll or Sweetheart Roses)

***Cecil Brunner.** Bright pink and white.
Else Poulsen. Bright rose.
Ellen Poulsen. Cherry pink.
Kirsten Poulsen. Bright scarlet.
***Edith Cavell.** Brilliant scarlet.
Echo. Two toned pink.
***Golden Salmon.** Salmon pink and orange.
***Gloria Mundi.** Orange scarlet.
***Ideal.** Dark red, profuse bloomer.
***Katherine Zeimet.** White.
Lafayette. Cherry red, frilled.
Salmon Spray. Salmon pink to carmine.
*Indicates dwarf type. Others taller growing.

\$.75 each; \$5.00 per dozen

CLIMBING ROSES

American Pillar. Pink.
American Beauty. Dark red.
Austrian Copper. Copper and red.
Chaplin's Pink. Pure pink.
Dr. Huey. Dark crimson.
Dr. Van Fleet. Cameo pink.
Flower of Fairfield. Fine crimson scarlet.
Mary Wallace. Red.
Primrose. Yellow and apricot.
Silver Moon. Pure white.
Scorcher. Brilliant scarlet.
Skybank Yellow. Yellow.
Paul's Scarlet. Dark red.

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